

Patent [19]

[11] Patent Number: 2001246228
[45] Date of Patent: Sep. 11, 2001

[54] PHOTOCATALYST APPARATUS

[21] Appl. No.: 2000059935 JP2000059935 JP

[22] Filed: Mar. 06, 2000

[51] Int. Cl.⁷ B01D05386 ; B01J01500; B01J03502

[57] ABSTRACT

PROBLEM TO BE SOLVED: To provide a photocatalyst apparatus capable of being used semipermanently.

SOLUTION: This photocatalyst apparatus consists of a base frame 2 having at least a bottom plate 21 and left and right side plates 22, 23, a light source 3 for emitting ultraviolet rays arranged in the base frame 2, filter attaching filter frames 4 attached to the base frame 2 before and behind the light source 3 and photocatalyst filters 5 attached to the filter frames 4 in a detachable manner. Gas to be treated is successively passed through the front and rear photocatalyst filters 5 while irradiated with ultraviolet rays from the light source 3 to decompose a harmful component in the gas to be treated.

* * * * *